

Claims

1. A system for overload protection in a data network for information delivery, comprising
 - a server (2) arranged to transmit a plurality of unicast content messages (5, 5') comprising a substantially identical content, communicatable via a data network (1), having unicast and distribution capabilities, to a plurality of terminals (3, 3') respectively, each one of the plurality of unicast content messages (5, 5') corresponding to one of the plurality of terminals (3, 3'),
 - a message interceptor (8), comprising
 - a computer, arranged for receiving from the data network the plurality of unicast content messages(5, 5') with the substantially identical content,
 - the computer further arranged for grouping the plurality of unicast content messages(5, 5') with the substantially identical content into a distributable content message (6) comprising the substantially identical content,
 - the computer further arranged for communicating the distributable content message (6), to the plurality of terminals (3, 3') via the data network (1),
 - whereby the plurality of unicast content messages(5, 5'), with the substantially identical content, for the plurality of terminals (3, 3') are routable by the data network (1) to the message interceptor (8), and
 - the distributable content message (6) is distributable by the data network (1) to the plurality of terminals (3, 3').
- 25 2. The system according to claim 1, wherein
 - the message interceptor (8) is arranged to communicate the distributable content message (6) to a node in the data network (1), the node defining a data network segment,
 - the node is arranged for distributing the distributable content message (6) via the data network (1) to at least one of the plurality of terminals (3, 3').
- 30 3. The system according to claim 1 or 2, wherein
 - the distributable content message (6) comprises one of a broadcast content message and a multicast content message, and
 - the data network (1) distribution capability comprises the ability to broadcast or multicast the broadcast or the multicast content message respectively.

4. The system according to claim 2 - 3, wherein

- the plurality of terminals (3, 3') comprise a mobile terminal (11),
- the data network (1) comprises a radio network,
- 5 • the data network (1) communicates with a radio base station which is arranged to communicate with the mobile terminal (11) via the radio network, and
- the radio network comprises a radio interface (12), and
- the radio network is arranged to broadcast the distributable content message (6).

10 5. The system according to any one of claim 2 - 4, wherein the node comprises a GGSN.

6. The system according to any one of claim 2 - 4, wherein the node comprises an SGSN.

15 7. A message interceptor (8) for overload protection in a data network (1) for information delivery, comprising

- a computer, arranged for receiving from the data network (1) a plurality of unicast content messages(5, 5') with the substantially identical content,
- 20 • the computer further arranged for grouping the plurality of unicast content messages(5, 5') with the substantially identical content into a distributable content message (6) comprising the substantially identical content,
- the computer further arranged for communicating the distributable content message (6), to a plurality of terminals (3, 3') via the data network (1), each one of the plurality of terminals (3, 3') corresponding to one of the plurality of unicast content messages (5, 5'),
- 25 • whereby the plurality of unicast content messages(5, 5'), with the substantially identical content, for the plurality of terminals (3, 3') are routable by the data network (1) to the message interceptor (8), and
- 30 • the distributable content message (6)is distributable by the data network (1) to the plurality of terminals (3, 3').

8. The message interceptor according to claim 7, wherein

- the computer is arranged to communicate the distributable content message (6) to a node in the data network (1), the node defining a data network segment,

- the node is arranged for distributing the distributable content message (6) via the data network (1) to at least one of the plurality of terminals (3, 3').

9. The message interceptor according to claim 7 or 8, wherein

- 5 • the distributable content message (6) comprises one of a broadcast content message and a multicast content message, and

 • the data network (1) distribution capability comprises the ability to broadcast or multicast the broadcast or the multicast content message respectively.

10 10. A method for overload protection in a data network (1) for information delivery, comprising

- communicating by a server (2) a plurality of unicast content messages (5, 5') having a substantially identical content, via the data network (1) to a plurality of terminals (3, 3') respectively, each one of the plurality of unicast content messages corresponding to one of the plurality of terminals (3, 3')

15 messages corresponding to one of the plurality of terminals (3, 3'),

- routing the plurality of unicast content messages (5, 5') with the substantially identical content to a message interceptor,
 - receiving the plurality of unicast content messages (5, 5') with the substantial identical content by the message interceptor

20 • grouping the plurality of unicast content messages (5, 5') with the substantially identical content into a distributable content message (6) by the message interceptor,

- distributing the distributable content message (6) to the plurality of terminals (3, 3') via the data network (1) by the message interceptor.

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11. The method according to claim 10, comprising

- communicating the distributable content message (6) to a node (10) in the data network (1), the node (10) defining a data network segment by the message interceptor (8).

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- distributing the distributable content message (6) via the data network (1) to at least one of the plurality of terminals (3, 3') by the node.

12. The method according to claim 10 - 11, comprising

- distributing the distributable content message (6), whereby the data network (1) is arranged to broadcast or multicast the distributable content message (6) respectively.

13. The method according to any one of the claims 15 – 17, comprising

- distributing the distributable content message (6) to at least one mobile terminal,
- distributing the distributable content message (6) via a radio network,
- 5 • distributing the one of the broadcast message and the multicast message via a radio base station which is arranged to communicate with the mobile terminal via the radio network, and
- broadcasting the broadcast message or the multicast message via a radio interface (12).

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14. The method according to any one of the claims 13, wherein the node comprises a GGSN.

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15. The method according to any one of the claims 13, wherein the node comprises a SGSN.

16. The method according to any one of the claims 13, wherein the node comprises the radio base station (13).

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